

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
690 Walnut Ave. St. 150  
Vallejo, CA 94592-1133  
(707) 649-5453  
(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-000113**Date Inspected:** 13-Sep-2007**Project Name:** SAS Superstructure**OSM Arrival Time:** 900**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1530**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**Quality Control Contact:** N/A**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:****Bridge No:** 34-0006**Component:** Test Samples**Bid Item:** 52 (F)**Lot No:** N/A**Summary of Items Observed:**

The Caltrans Quality Assurance (QA) representative Roscoe Dixon accompanied by Caltrans METS personnel Gem Yeu Ma arrived at the Testing Center of the Shanghai Institute of Iron and Steel Technology (SIIST) and witnessed the saw cutting and transferring of identification numbers to test specimen pieces cut from 12 Check sample plate material which was sampled at ZPMC representing 16mm thick - A709M-345F2-X and 18mm thick - A709M-345 T2-X steel plate material.

The cutting of check samples were witnessed by Caltrans QA inspector using Caltrans lot numbers B75-063-07 thru B75-075-07 for traceability. The check samples were cut down to sizes to produce the test samples, and the sample pieces, which were then milled into tensile test specimens, impact test specimens, and chemical analysis test specimens, with the remaining material saved in case further testing is required.

The saw cutting of Check samples proceeded as follows: The senior engineer of the mechanical testing laboratory Mr. Jian Jiang Yan Jun directed the workers to saw cut check samples down to the required specimen sizes to produce the test samples, the steps involved with each sample included the following:

- (1) The chemical analysis sample was cut parallel to the check sample rolling direction.
- (2) The first tensile test specimen was cut perpendicular to the check sample rolling direction.
- (3) The Charpy Impact test sample was cut perpendicular to the rolling direction,
  - (A) A set of three test specimens were cut from a single test piece,
  - (B) Each Charpy test specimen was marked with the ID number which was transferred from each Check sample test coupon, and
  - (C) the longitudinal rolling direction mark was stamped at the ends of each individual test specimen and a

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waterproof paint marking was placed on the specimen to indicate the V-notch direction which will be milled.

(4) The second tensile test specimen was cut perpendicular to the rolling direction. Mr. Zhou Jian Jiang transferred each check sample identification mark to the tensile, Charpy test specimens and chemical analysis samples.

(5) The Chemical analysis samples had a section of paint removed, two holes were drilled to provide metal shavings which was packaged visually checked by QA inspector for labeling traceability and the chemical analysis samples were sent to the Chemical testing facility for the purpose of being tested at a later date. The tensile test samples and Charpy impact test samples will be milled to the proper testing dimensions on 09/14/07.

### Summary of Conversations:

All relevant work related conversations are as noted within the report shown above.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Mazen Wahbeh, (818) 292-0659, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Dixon,Roscoe	Quality Assurance Inspector
<b>Reviewed By:</b>	Cochran,Jim	QA Reviewer

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